

- a) executing micro computer operating system for control of said portable computer-display unit, wherein said operating system is adapted to accepting user inputs and generating processing outputs of said portable hand held computer-display unit;
- b) selecting a plurality of computing and communication modes in coordination with said executing micro computer operating system step, wherein said modes includes wireless voice, wireless data and conventional computing functions, and wherein said user has options to run these modes roughly simultaneously and said selecting step is manual or automatic;
- c) controlling said plurality of computer and communications modes, such that multiple functions of said hand held computer-display unit appear roughly simultaneous in operation; and
- d) executing a plurality of programs under control of said operating system and controlling step, wherein said plurality of program functions may include such functions as internet browser functions, e-mail functions, voice communications, voice mail, personal productivity functions and telephony functions.

23. A method of controlling a computer-display handset unit as recited in Claim 14, in which said portable hand held computer-display handset unit is primarily a personal digital assistant device.

24. A method of controlling a computer-display handset unit as recited in Claim 14, in which said portable hand held computer-display handset unit is primarily a cellular phone unit.

25. (CANCELLED)

31. A method of controlling a computer-display handset unit as recited in Claim 14, in which said controlling of plurality of computer and communications modes step is adapted to communications among multiple computer-display handset units or earset units.

32. A method of controlling a computer communications base unit comprising the steps of:

- a) controlling local two-way wireless data communications among one or more microprocessor enabled handset or ear sets devices, located in the same or nearby rooms;
- b) controlling long distance two-way wireless data communications to and from external wide area communications networks such as the Internet, in cooperation with said controlling local two-way wireless data communications;
- c) relaying data to and from said handsets or earsets at said base unit in cooperation with controlling long distance two-way wireless data communications step; and
- d) exchanging control codes and signals with a microprocessor system located at said base unit, said microprocessor computer systems controlling most communication and computing functions of said base unit.

33. A method of controlling a computer communications base unit, as recited in Claim 32, in which said data is digital data modulated onto an radio frequency (RF) carrier.

34. A method of controlling a computer communications base unit, as recited in Claim 32, in which said microprocessor computer system is adapted to a portable computer notebook or laptop computer.

35. A method of controlling a computer communications base unit, as recited in Claim 32, in which said controlling local two-way wireless data communications step is comprised of low power wireless digital data communication means designed for relatively short distances and designed for relatively low cost.

36. A method of controlling a computer communications base unit, as recited in Claim 32, in which said controlling long distance two-way wireless data communications to and from external wide area communications networks such as the Internet is adapted to wire line type communications networks.

37. A method of wireless communications comprising the steps of:

- a) controlling multiple wireless communication devices such as handsets or earsets communicating data wirelessly to and from other wireless devices located locally such as in the same room or nearby room;
- b) controlling at least one computer base unit for wireless data communications to and from said multiple wireless communication devices; and
- c) executing local area network (LAN) functions, with said multiple wireless communication devices and said computer base units, which share data, control codes, and computer programs, similar to conventional computer LANs.

38. A method of wireless communications, as recited in Claim 37, further comprising a step of controlling communication relay functions for data access to the Internet or other external wide area networks.

39. A method of wireless communications, as recited in Claim 37, in which said data may be comprised of voice, graphics, image, video, or audio types of information.

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